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APPLICATION NO. 4 PEILING DATE 14 /97	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
	C-C-1 1C-14	C CRP-145

PATENT ADMINISTRATOR
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no/ REI 690

HM22/0512 7		EXAMINER ROMEO, D	
		ART UNIT	PAPER NUMBER
		1646	10

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

05/12/99

Office Action Summary

Application No. 08/851,628 Applicant(s)

Cohen et al.

Examiner Sur Planes 5/9/99 David S. Romeo

Group Art Unit 1646



X Responsive to communication(s) filed on 2-22-99	
X This action is FINAL.	
☐ Since this application is in condition for allowance except for form in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.E.	mal matters, prosecution as to the merits is closed D. 11; 453 O.G. 213.
A shortened statutory period for response to this action is set to expis longer, from the mailing date of this communication. Failure to reapplication to become abandoned. (35 U.S.C. § 133). Extensions of 37 CFR 1.136(a).	spond within the period for response will cause the
Disposition of Claims	
X Claim(s) 1-4, 6-10, 12-17, 24, 28, and 32	is/are pending in the application.
Of the above, claim(s)	
☐ Claim(s)	
☐ Claim(s)	
☐ Claims	
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawing Rev	view, PTO-948.
☐ The drawing(s) filed on is/are objected to	
☐ The proposed drawing correction, filed on	•
☐ The specification is objected to by the Examiner.	
☐ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priority unde	r 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the	priority documents have been
☐ received.	
☐ received in Application No. (Series Code/Serial Number)	·
\square received in this national stage application from the Inter-	
*Certified copies not received:	
☐ Acknowledgement is made of a claim for domestic priority unc	der 35 U.S.C. § 119(e).
Attachment(s)	
☐ Notice of References Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).	
☐ Interview Summary, PTO-413	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	
☐ Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION ON THE P	0.4.0WW0 04.050
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DETAILED ACTION

- 1. The amendment filed 02/22/99 (Paper No. 9) has been entered in full. Claims 1-4, 6-10, 12-17, 24, 28 and 32 are pending and are being examined.
- 2. Any objection or rejection of record that is not maintained in this Office action is withdrawn.
- 3. The rejection of claim(s) 12 under 35 U.S.C. § 112, second paragraph, is maintained. Applicants argue that the human osteogenic and bone morphogenetic proteins were well known in the art. Applicants' arguments have been fully considered but they are not persuasive. The material elements upon which applicant relies (i.e., OP-1, OP-2, OP-3, and BMP2-6) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims.
- 4. The rejection of claim(s) 3 and 4 under 35 U.S.C. § 112, second paragraph, is maintained. Applicants argue that the meaning of "C-terminal cysteine domain" was well known in the art. Applicants' arguments have been fully considered but they are not persuasive. The claims recite "a C-terminal cysteine domain" and it is unclear whether "the C-terminal seven cysteine domain" or some portion thereof is intended.

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5. The rejection of claim(s) 1-4, 6-10, 12-17, 24, 28 and 32 under 35 U.S.C. 103(a) as being unpatentable over Glassock et al. (V) and Brenner et al. (U) in view of Kuberasampath et al. (BB, cited by Applicants) is maintained. Applicants argue that there is no suggestion or motivation to combine the references, there is no reasonable expectation of success, and that the references do not teach all the claim limitations. Applicants' arguments have been fully considered but they are not persuasive. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Both Glassock et al. and Brenner et al. provide both a suggestion and motivation to administer anti-inflammatory therapy to a mammal in, or at risk of, chronic renal failure. See the last Office action at page 10-11. Glassock et al. also teaches that glomerular filtration rate is reduced because of infiltration of the capillaries by inflammatory cells (page 1295, column 2, paragraph 2). One of ordinary skill in the art would reasonably expect that suppressing inflammation would reduce the infiltration of the capillaries by inflammatory cells and glomerular filtration rate would increase, or that suppressing inflammation would cause a clinically significant improvement in a standard marker of renal function, wherein said standard marker is glomerular filtration rate. Kuberasampath et al. teach a method of immunosuppression with OP-1. One of ordinary skill in the art would have a reasonable expectation that immunosuppression with OP-1 would reduce the infiltration of the

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capillaries by inflammatory cells and glomerular filtration rate would increase. Claims 13, 14 and 15 do not require the treatment of the recited conditions. The claims only require administering OP-1 to a mammal in, or at risk of, chronic renal failure and improvement in a standard marker of chronic renal function, which the references provide. Brenner et al. teach that in the relatively early stages of CRF the GFR is reduced to levels of about 35-50% of normal, as recited in claim 24. One of ordinary skill in the art would have reasonable expectation that in the relatively early stages of CRF the number of functional nephron units is less that about 50% of normal (claim 17). Also with regards to claims 17 and 24 and with regards to claims 28 and 32, where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable parameters by routine experimentation.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Romeo whose telephone number is (703) 305-4050. The examiner can normally be reached on Monday through Friday from 6:45 a.m. to 3:15 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Hutzell, can be reached on (703) 308-4310.

Official papers filed by fax should be directed to (703) 308-4242.

Faxed draft or informal communications should be directed to the examiner at (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Olyaber C-Kennen

ELIZABETE MERER PRIMARY MAMINER

₩*&K* May 9, 1999

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